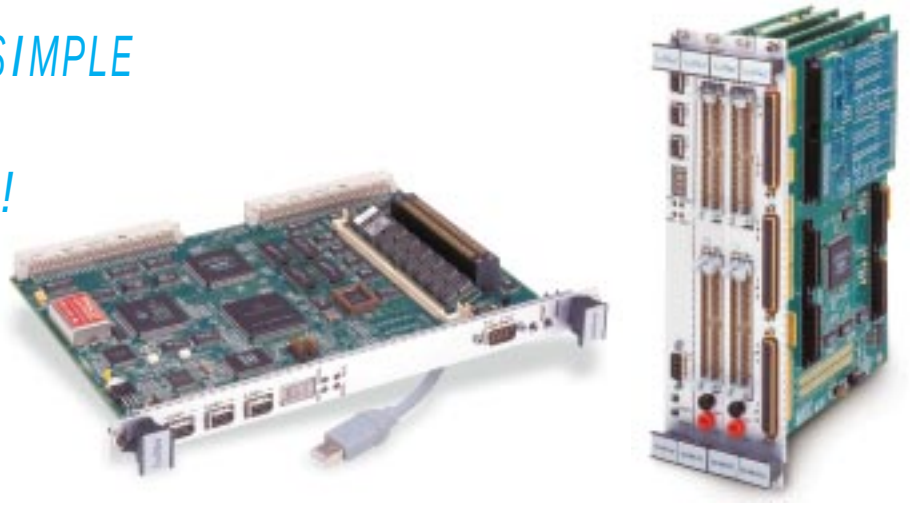
IEEE-1394 TO VME

400 Mbps IEEE-1394 VME Communication Adapter

1394 PRODUCT LINE

Hardware
Software
Development Tools
Services

POWERFULLY SIMPLE HIGH-SPEED CONNECTIVITY!



Part of the 1394 product family, the VME bus communication adapter featuring **Texas Instruments TSB12LV01** *link layer controller and* **Texas Instruments TSB41LV03** *physical layer controller enables high-speed inter-connections for heterogeneous systems.*

Based on the FireWire™ (IEEE 1394) High-Performance Serial Bus and the Motorola 68360 processor, the adapter bridges any VME-based system including IP (Industry Pack) modules to PCI, PMC, CompactPCI, as well as other VME systems. The card can be extended with up to 3 IP module carrier boards, each allowing up to 4 IP modules, for a total of 12 IndustryPack sites (32 MHz or 8 MHz.) IP modules and all attached nodes are fully synchronized for real-time applications. This card can also be sold as a stand-alone board without the VME interface, which gives access to the IP modules via 1394. The VME 1394 adapters offer 400 Mbps isochronous and asynchronous data transfers through three on board ports. Full real-time synchronization between all attached devices is provided. Point-to-point, daisy chain or tree topologies are all supported. The VME 1394 adapter is the only intelligent communication adapter that includes an on-board processor, which means that VME or IP modules can be controlled without requiring an extra processor board on the VME rack. Furthermore, you can download and run customized applications directly on the VME's on-board processor.

High-speed communication or cost-effective hub connection and lower prices make Mindready's 1394 product line the most efficient communication solution for the creation and expansion of computing systems.

Features

- ***Complete resident firmware, intelligent bridge between 1394, VME and local buses***
- ***Specific functions may be added directly to the adapter's FLASH memory***
- ***400 Mbps asynchronous and isochronous data transfer supported***
- ***Complete 32-bit VMEbus interface controller and arbiter***
- ***Point-to-point, daisy chain or tree topologies - no cabling restrictions!***
- ***Electrically isolated***
- ***Compliant with FCC product specifications and CE rules***
- ***Texas Instruments TSB12LV01 link layer controller***
- ***TSB41LV03 physical layer controller***

mindready

Contact us:

- *Tel.: (514) 685-2003*
- *Fax: (514) 683-3200*
- *info1394@mindready.com*
- *www.mindready.com*

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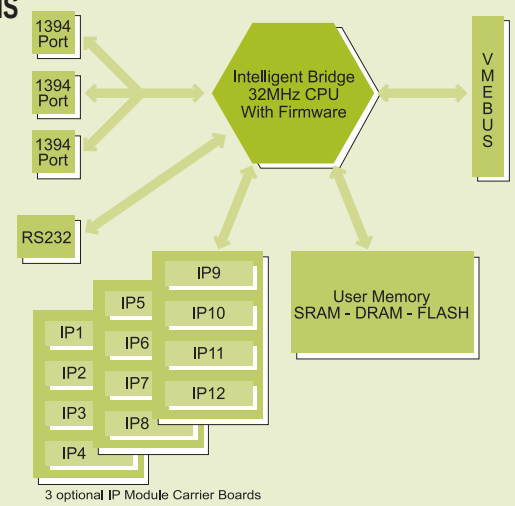
TECHNICAL SPECIFICATIONS



IEEE-1394 INTERFACE

- *100, 200 and 400 Mbps data communication transfer*
- *Asynchronous and isochronous communication*
- *3 IEEE 1394 ports*
- *Transparent bridge with direct address mapping, direct bytes or block read and write cycles*
- *Hot plug & play*
- *Compatible with all SedNet™ adapters*
- *Connect up to 63 computers*
- *Physically isolated interface*
- *Motorola 68360 32 MHz processor*
- *Texas Instruments TSB12LV01 link layer controller*
- *Texas Instruments TSB41LV03 physical layer controller*

USER MEMORY

- *256 KB 32-bit fast SRAM, 0 wait state*
- *256 KB 8-bit flash memory*
- *32 MB DRAM*
- *Capabilities to add and download custom functions*

FIRMWARE

- *Complete resident firmware including intelligent 1394 bridging*
- *Real-time specific functions:*
  - *Analog and digital provider*
  - *Programmable isochronous timer to synchronize all attached nodes and IP modules*
  - *Specific real-time functions*
- *Configuration and test via RS-232 port*

HARDWARE SPECIFICATIONS

Form Factor: VMEbus 6U
Height: 9.2 in (23.3 cm)
Depth: 6.3 in (16.0 cm)
Storage Temperature: 32°F to 158°F (0°C to 70°C)
Operating Temperature: 41°F to 131°F (5°C to 55°C)
Operating Humidity: 20% to 90% non-condensing
Operating Voltage: +5, ±12 Volts, ±5%

Ordering Information

Please contact our sales department at:

- ***Tel.: (514) 685-2003***
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